

PAT-NO: JP405156301A
DOCUMENT-IDENTIFIER: JP 05156301 A
TITLE: LOW-THERMAL-EXPANSION ALLOY
COMPOSITE POWDERY MATERIAL
AND ITS SINTERED ARTICLE
PUBN-DATE: June 22, 1993

INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

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APPL-NO: JP03317889
APPL-DATE: December 2, 1991

INT-CL (IPC): B22F001/00 , B22F003/10

ABSTRACT:

PURPOSE: To obtain a sintered article consisting of a low-thermal-expansion alloy composite powder easy to compact by compacting the kneaded material of the Invar alloy powder, ceramic powder and org. binder in a specified

ratio and sintering the compact.

CONSTITUTION: An Invar or super Invar alloy powder and a ceramic powder are mixed in 75:25 to 25:75 weight ratio of the alloy powder to ceramic powder. The composite powdery material is mixed with an org. binder (e.g. polyolefins, ethylene-vinyl acetate copolymer, etc.), and the mixture is kneaded. The kneaded material is compacted, and the compact is dewaxed and then sintered.

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